SAMSUNG

PDP-TELEVISION
(PLASMA DISPLAY PANEL)

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
Picture In Picture (PIP)
Energy Saving
TELETEXT (Option)
SRS TruSurround XT
Digital Natural Image engine

Register your product at www.samsung.com/global/register
Record your Model and Serial number here for future reference.

▪ Model _____ ▪ Serial No. _____

User Instructions

- **Screen Image retention**
  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

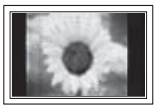
- **Height**
  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

- **Heat on the top of the PDP TV**
  The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

- **The product is making a ‘cracking’ noise.**
  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- **Cell Defects**
  The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- **Avoid operating the TV at temperatures below 5°C(41°F)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**
  
  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

- **Afterimage on the Screen.**
  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

- **Warranty**
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

- **Installation**
  Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

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Checking Parts

Owner's Instructions

Remote Control/
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Power Cord

Cloth-Clean

Warranty Card/
Registration Card/
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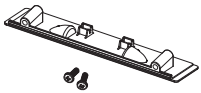
(Not available in all
locations)



Cover-Bottom /
Screws (2ea)
(PS-50P91FH,
Refer to page 54)

Ferrite Core for
Power Cord

Ferrite Core for
Side-AV/S-Video

Ferrite Core for
Headphone

Sold Separately

S-Video Cable

Antenna Cable

Component Cables

Audio Cables

Video Cable

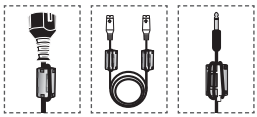
PC Cable

PC Audio Cable

HDMI Cable

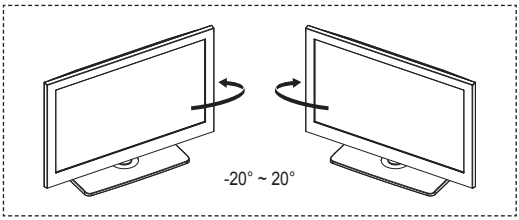
HDMI/DVI Cable

➢ **Ferrite Core (Power Cord, Audio/Video Cable, S-Video Cable, Headphone)**
The ferrite cores are used to shield the cables from interference.
When connecting a cable, open the ferrite core and clip it around the cable near the plug.



Using the Stand-Base

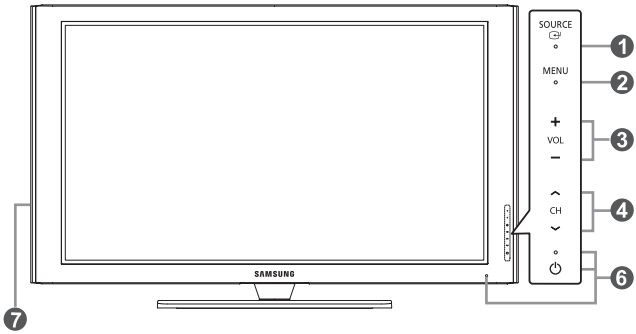
➢
- ◆ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- ◆ The PDP can rotate 20 degrees in right and left directions.



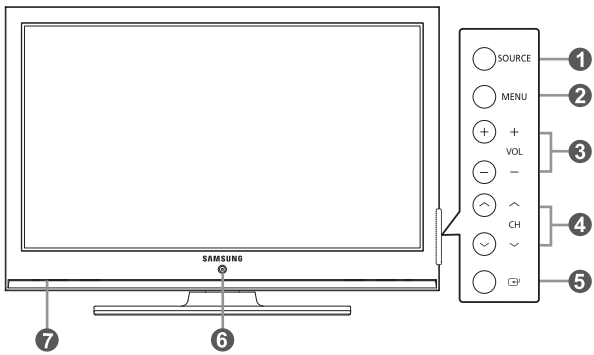
Control Panel

Front (or Side) Panel

PS-50P91FH



PS-63P71FH



➢ The product colour and shape may vary depending on the model.

❶ **SOURCE**
Displays a menu of all of the available input sources (**TV**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2**, and **HDMI3**).

➢ In the on-screen menu, use this button as you would use the **ENTER/OK** button on the remote control. (PS-50P91FH)

❷ **MENU**
Press to see the on-screen menu of your TV's features.

❸ **+ VOL −**
Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL −** buttons as you use the **+** and **−** buttons on the remote control.

❹ **∧ CH ∨**
Press to change channels. In the on-screen menu, use the **∧ CH ∨** buttons as you use the **∧** and **∨** buttons on the remote control.

❺ **(ENTER/OK)**
Press to confirm a selection.

❻ **(Power) button**
Press to turn the TV on and off.

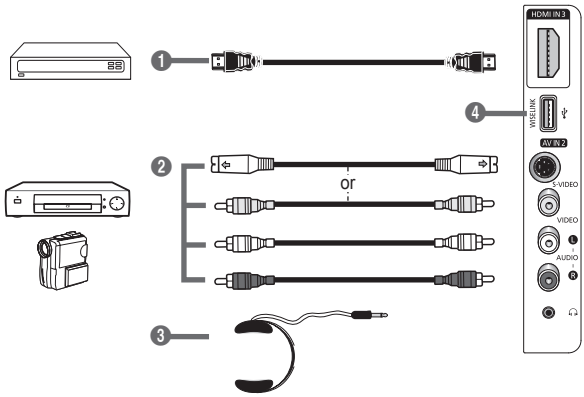
Power Indicator
Blinks and turns off when the power is on and lights up in stand-by mode.

Remote Control Sensor
Aim the remote control towards this spot on the TV.

❼ **Speaker**

Connection Panel

Side Panel



➢ The product colour and shape may vary depending on the model.

☛ ◆ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.

◆ When connecting an external device, match the colour of the connection terminal to the cable.

❶ **HDMI IN 3**
Connect to the HDMI jack of a device with HDMI output.

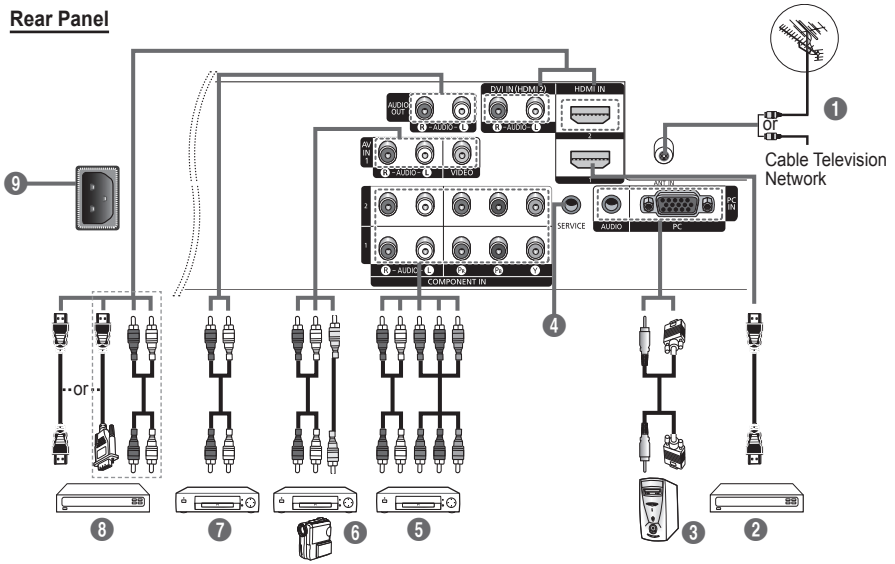
❷ **AV IN 2(S-VIDEO or VIDEO / AUDIO R/L)**
Video (S-Video or Video) and audio inputs for external devices, such as a camcorder or VCR.

❸ **Headphones jack**
You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.
➢ Prolonged use of headphones at a high volume may damage your hearing.

❹ **WISELINK**
Connect a USB mass storage device to view photo files (JPEG) and play audio files (MP3).

Continued...

Rear Panel



➢ The product colour and shape may vary depending on the model.

☛ ◆ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.

◆ When connecting an external device, match the colour of the connection terminal to the cable.

❶ **ANT IN**
75Ω Coaxial connector for Aerial/Cable Network.

❷ **HDMI IN 1**
Connect to the HDMI jack of a device with HDMI output.

❸ **PC IN / AUDIO**
Connect to the video and audio output jack on your PC.

❹ **SERVICE**
Connector for service only.

❺ **COMPONENT IN 1, COMPONENT IN 2**
Video ($Y/P_B/P_R$) and audio (AUDIO R/L) inputs for Component.

❻ **AV IN 1(VIDEO / AUDIO R/L)**
Connect RCA cable to an appropriate external A/V device such as VCR, DVD or Camcorder.

❼ **AUDIO OUT(AUDIO R/L)**
Connect RCA audio signals from the TV to an external source, such as Audio equipment.

❽ **HDMI IN 2**
- Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)
- When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below. Failure to observe this may result in picture distortion, image breakup or no picture.
- Do not attempt to connect the HDMI/DVI connector to a PC or Laptop Graphics Card. (This will result in a blank screen being displayed)
- The TV may not output sound and pictures may be displayed with abnormal color when DVD players/Cable Boxes/Satellite receivers supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the HDMI IN 2 jack and the audio cables to the DVI IN HDMI2) [R-AUDIO-L] jacks on the back of the TV. If this happens, contact the company that provides the external device to confirm the HDMI version, then request an upgrade.

DVI IN (HDMI 2) AUDIO R/L
DVI audio outputs for external devices.

❾ **POWER IN**
Connect the supplied power cord.

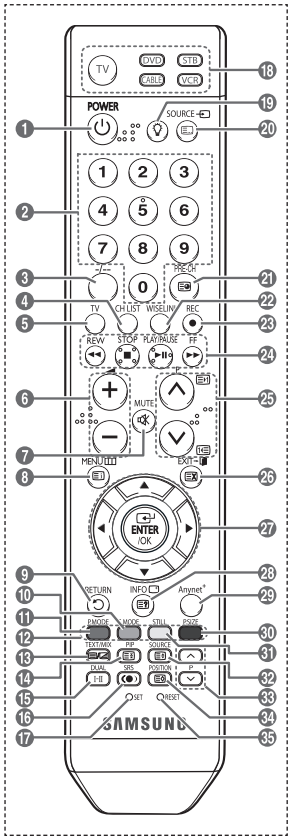
Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	X

Viewing the Remote Control

➢ ◆ This is a special remote control for the visually impaired persons, and has Braille points on the POWER, Channel, Volume, STOP, and PLAY/PAUSE buttons.

◆ The performance of the remote control may be affected by bright light.



❶ POWER button (turns the TV on and off)

❷ Number buttons for direct channel access

❸ One/Two-digit channel selection

❹ Channel control button (Refer to page 15)

❺ Selects the TV mode directly

❻ ⊕ :Volume increase
⊖ :Volume decrease

❼ Temporary sound switch-off

❽ Displays the main on-screen menu

❾ Returns to the previous menu

❿ Sound effect selection (Refer to page 21)

⓫ Picture effect selection (Refer to page 17)

⓮ Picture-In-Picture On/Off

⓯ Sound mode selection

⓰ TruSurround XT mode button

⓱ Remote control setup

⓲ Selects a target device to be controlled by the Samsung remote control (TV, DVD, STB, CABLE, VCR)

⓳ Press to activate backlight of the VOL, CH, and the active source button (TV, DVD, CABLE, STB, VCR) on the remote.

⓴ Available source selection

㉑ Previous channel

㉒ This function enables you to view and play photo (JPEG) and audio files (MP3) from an external device. (See page 39 (JPEG), 43 (MP3))

㉓ Records for Live Broadcasting

㉔ VCR/DVD Function (Rewind, Stop, Play/Pause, Fast/ Forward

㉕ ⌃ :Next channel
⌄ :Previous channel

㉖ Exit the on-screen menu

㉗ Move to the required menu option / Adjust an option value respectively

㉘ Use to see information on the current broadcast

㉙ Runs the Anynet+ view functions and sets up Anynet+ devices. Please refer to the Anynet+ Owner's Instruction.

㉚ Picture size selection

㉛ Picture freeze

㉜ Sub picture (PIP) source selection

㉝ Sub picture (PIP) channel selection

㉞ Sub picture (PIP) location selection

㉟ If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds.
Re-insert the batteries and try using the remote control again.

Teletext Functions

(Refer to page 46)

❺ Exit from the teletext display (depending on the model)

❽ Teletext index

⓬ Fastext topic selection

⓭ Teletext display/mix both teletext information and the normal broadcast

⓮ Teletext hold

⓴ Teletext mode selection (LIST/FLOF)

㉑ Teletext sub page

㉕ P ⌃ :Teletext next page
P ⌄ :Teletext previous page

㉖ Teletext cancel

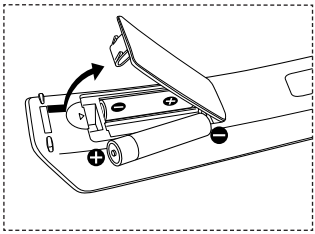
㉘ Teletext reveal

㉜ Teletext size

㉞ Teletext store

Continued...

Installing Batteries in the Remote Control



1 Lift the cover at the back of the remote control upward as shown in the figure.
2 Install two AAA size batteries.
   ➢ ◆ Make sure to match the "**+**" and "**–**" ends of the batteries with the diagram inside the compartment.
   ◆ Do not mix battery types, i.e. alkaline and manganese.
3 Close the cover as shown in the figure.
   ➢ Remove the batteries and store them in a cool and dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV.

➢ If the remote control doesn't work! Check the following:
1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power cut, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

Switching Your Television On and Off

The mains lead is attached to the rear of the television.

1 Plug the mains lead into an appropriate socket.
   ➢ The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
2 Press the ⏻ (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control to switch the television on. The programme that you were watching last is re-selected automatically. If you have not yet stored any channels, no clear picture appears. Refer to "Storing Channels Automatically" on page 13 or "Storing Channels Manually" on page 14.
   ➢ If the television is initially powered on, several basic customer settings proceed automatically. Refer to "Plug & Play Feature" on pages 10~11.
3 To switch the television off, press the ⏻ (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control.
4 To switch the TV on, press the ⏻ (Power) button (On/Off) on the front of the TV or press the **POWER** button or number buttons on the remote control.

Viewing the Menus

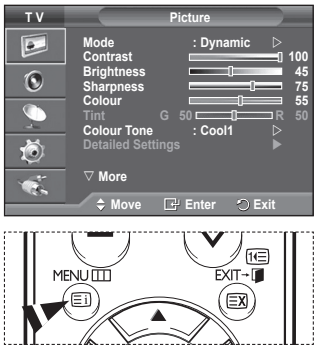
1 Press the **MENU** button.
The main menu is displayed on the screen.
Its left side has five icons: **Picture**, **Sound**, **Channel**, **Setup**, and **Input**.

2 Press the ▲ or ▼ button to select one of the icons.
Press the **ENTER/OK** button to access the icon's sub-menu.

3 Press the ▲ or ▼ button to move to items in the menu.
Press the **ENTER/OK** button to enter items in the menu.

4 Press the ▲/▼/◄/► button to change the selected items.
Press the **RETURN** button to return to the previous menu.

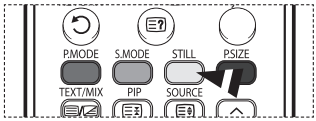
5 Press the **EXIT** button to exit from the menu.



Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "STILL" button. To return to normal viewing, press it again.

➢ To prevent screen burn-in, this function will automatically become inactive in 5 minutes.



Plug & Play Feature

When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

1 If the television is in standby mode, press the **POWER** button on the remote control. The message **Start Plug & Play.** is displayed. Press the **ENTER/OK** button. **Language** menu is displayed.

➢ If any language is not selected on the **Language** menu, the **Language** menu will disappear about 30 seconds later.

2 Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER/OK** button. The message **Select Home Mode when installing this TV at home.** is displayed.

Continued...

3 Press the ◄ or ► button to select **Shop** or **Home**, then press the **ENTER/OK** button. The message to check the connected status of the antenna is displayed.

➢ ◆ The default selection is Home.
◆ We recommend setting the TV to Home mode for the best picture in your home environment.
◆ **Shop** mode is only intended for use in retail environments.
◆ If the unit is accidentally set to Shop mode and you want to return to Dynamic (Home) mode, press the Volume button and then hold down the **MENU** button for five seconds on the TV pannel.

4 Make sure that the antenna is connected to the TV. Press the **ENTER/OK** button. **Area** menu is displayed.

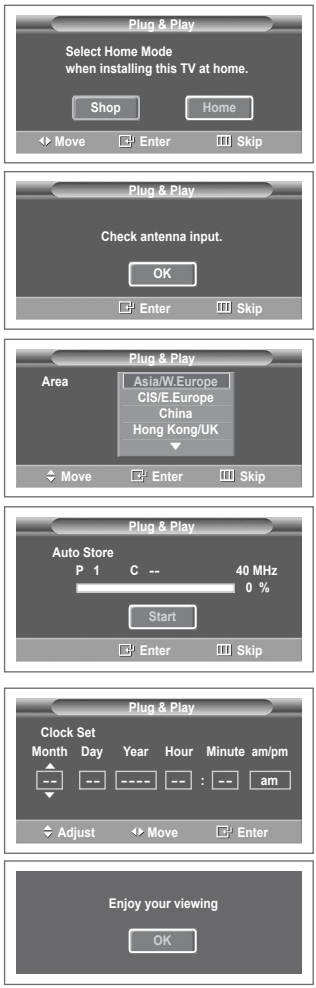
5 Select your country or area by pressing the ▲ or ▼ button, then press the **ENTER/OK** button. **Auto Store** menu is displayed.

6 Press the **ENTER/OK** button to start search the channels. The channel search will start and end automatically. After all the available channels are stored, **Clock Set** menu is automatically displayed. Press the **ENTER/OK** button.
➢ To stop the search before it has finished, press the **ENTER/OK** button with **Stop** selected.

7 Press the ◄ or ► button to select **Month**, **Day**, **Year**, **Hour**, **Minute** or **am/pm**. Set these by pressing the ▲ or ▼ button.
➢ You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.

8 Press the **ENTER/OK** button to confirm your setting. The message **Enjoy your viewing** is displayed. When you have finished, press the **ENTER/OK** button.
➢ Even if the **ENTER/OK** button is not pressed, the message will automatically disappear after several seconds.

➢ **Plug & Play** feature is available in the **TV** mode only.



If you want to reset this feature …

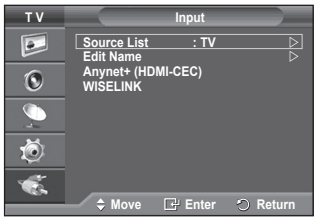
1 Press the **MENU** button to display the menu.

2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.

3 Press the **ENTER/OK** button again to select **Plug & Play**. The message **Start Plug & Play.** is displayed.

Viewing an External Signal Sources

You can switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box, and the TV source (broadcast or cable).



1 Press the **MENU** button to display the menu.

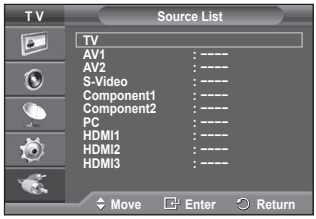
2 Press the ▲ or ▼ button to select **Input**, then press the **ENTER/OK** button.

3 Press the **ENTER/OK** button again to select **Source List**.

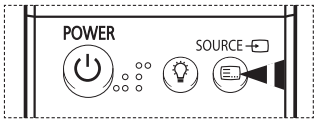
4 Press the ▲ or ▼ button to select the signal source, then press the **ENTER/OK** button.

Available signal sources: **TV**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2**, **HDMI3**

➢ Only the connected devices can be selected.

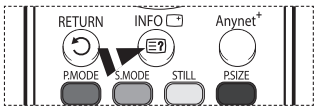


➢ You can select these options simply by pressing the **SOURCE** button on the remote control.



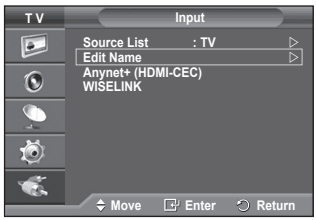
➢ To watch television programme again, press the **TV** button and select the channel number required.

➢ Press the **INFO** button on the remote control to see the current input source.



Editing Device Names

You can give a name to the external source.



1 Press the **MENU** button to display the menu.

2 Press the ▲ or ▼ button to select **Input**, then press the **ENTER/OK** button.

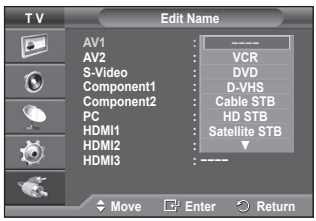
3 Press the ▲ or ▼ button to select **Edit Name**, then press the **ENTER/OK** button.

4 Press the ▲ or ▼ button to select the external source to be edited, then press the **ENTER/OK** button.

5 Select the required device by pressing ▲ or ▼, then press the **ENTER/OK** button.

Available device names: **VCR**, **DVD**, **D-VHS**, **Cable STB**, **HD STB**, **Satellite STB**, **AV Receiver**, **DVD Receiver**, **Game**, **Camcorder**, **DVD Combo**, **DHR (DVD HDD Recorder)**, **PC**

6 Press the **EXIT** button to exit.



➢ When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 2 port, you should set the HDMI2 mode to PC in the Edit Name of the Input mode. If the HDMI2 mode is not PC, it works depending on the TV setting.

Storing Channels Automatically

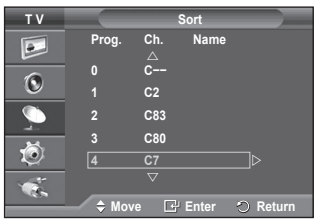
You can scan for the frequency ranges available to you (availability depends on your country).
Automatically allocated programme numbers may not correspond to actual or desired programme numbers.
However you can sort numbers manually and clear any channels you do not wish to watch.

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the **ENTER/OK** button to select **Area**.
4. Select your area by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
5. Press the ▲ or ▼ button to select **Auto Store**, then press the **ENTER/OK** button.
6. Press the **ENTER/OK** button again to start the search. The search will end automatically.
   ➢ To stop the search before it has finished, press the **RETURN** or the **ENTER/OK** button.

Sorting the Stored Channels

This operation allows you to change the programme numbers of the stored channels.
This operation may be necessary after using the auto store.

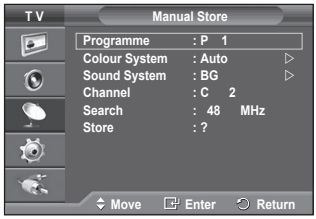
1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Sort**, then press the **ENTER/OK** button.
4. Select the channel that you wish to move by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
5. Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button. Press the **ENTER/OK** button. The channel is moved to its new position and all other channels are shifted accordingly.
6. Repeat steps **4** to **5** until you have moved all the channels to the required programme numbers.
7. Press the **EXIT** button to exit.



Storing Channels Manually

You can store television channels, including those received via cable networks.
When storing channels manually, you can choose:

- Whether or not to store each of the channels found.
- The programme number of each stored channel which you wish to identify.



1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Manual Store**, then press the **ENTER/OK** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
5. When you are satisfied with your setting, press the **ENTER/OK** button.
6. Press the **EXIT** button to exit.

- **Programme** (Programme number to be assigned to a channel)
  - Press the ▲ or ▼ button until you find the correct number.
    - ➢ You can also select the channel number directly by pressing the numeric buttons (0~9) on the remote control.
- **Colour System**: **Auto/PAL/SECAM/NTSC 4.43/NTSC 3.58**
  - Press the ▲ or ▼ button to select the required colour standard.
- **Sound System**: **BG/DK/I/M**
  - Press the ▲ or ▼ button to select the required sound standard.
- **Channel** (When you know the number of the channel to be stored)
  - Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
  - Press the ► button, then press the ▲ or ▼ button to select the required number.
    - ➢ You can also select the channel number directly by pressing the numeric buttons (0~9) on the remote control.
    - ➢ If there is abnormal sound or no sound, re-select the sound standard required.
- **Search** (When you do not know the channel numbers)
  - Press the ▲ or ▼ button to start the search.
  - The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number)
  - Set to **OK** by pressing the **ENTER/OK** button.

☛ **Channel mode**

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

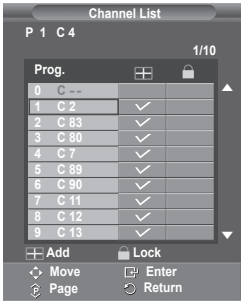
Adding / Locking Channels

Using the Channel Manager, you can conveniently add or lock channels.

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Channel Manager**, then press the **ENTER/OK** button.

◆ **Adding channels**
Using the Channel List, you can add channels.

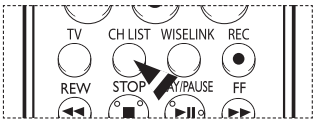
4. Press the **ENTER/OK** button again to select **Channel List**.
5. Move to the (⊞) field by pressing the ▲/▼/◄/► buttons, select a channel to be added, and press the **ENTER/OK** button to add the channel.
   ➢ If you press the **ENTER/OK** button again, the (✓) symbol next to the channel disappears and the channel is not added.



◆ **Locking channels**
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

6. Press the ▲ or ▼ button to select **Child Lock**, then press the **ENTER/OK** button.
7. Select **On** by pressing the ▲ or ▼ buttons, then press the **ENTER/OK** button.
8. Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER/OK** button.
9. Move to the (🔒) field by pressing the ▲/▼/◄/► buttons, select a channel to be locked, and press the **ENTER/OK** button.
   ➢ If you press the **ENTER/OK** button again, the (✓) symbol next to the channel disappears and the channel lock is canceled.
   ➢ A blue screen is displayed when **Child Lock** is activated.
10. Press the **EXIT** button to exit.

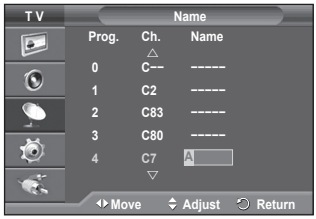
➢ You can select these options simply by pressing the **CH LIST** button on the remote control.



Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Name**, then press the **ENTER/OK** button.
4. Press the ▲ or ▼ button to select the channel to be assigned to a new name, then press the **ENTER/OK** button.
5. Press the ▲ or ▼ button to select a letter, a number, or a symbol (Results in this sequence: A~Z, 0~9, +, -, *, /, blank). Move on to the previous or next letter by pressing the ◄ or ► button, then press the **ENTER/OK** button.
6. Repeat steps **4** to **5** for each channel to be assigned to a new name.
7. Press the **EXIT** button to exit.

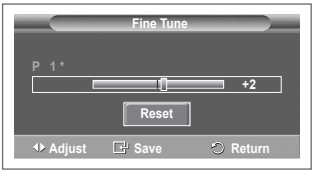


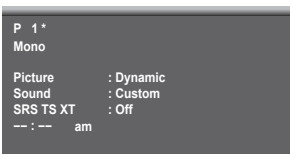
Fine Tuning Channel Reception

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation.
If the signal is weak or distorted, you may have to fine tune the channel manually.

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Fine Tune**, then press the **ENTER/OK** button.
4. To obtain a sharp, and clear picture and good sound quality, press the ◄ or ► button until you reach the optimal setting. Press the **ENTER/OK** button.
   ➢ To reset the fine tuning to **0**, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER/OK** button.
5. Press the **EXIT** button to exit.

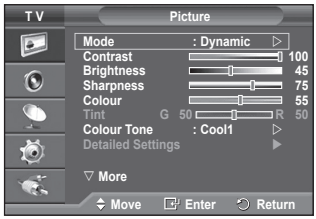
   ➢ Press the **INFO** button. Fine Tune Store will change the colour of the Channel OSD (On Screen Display) from white to red and add the " * " mark.



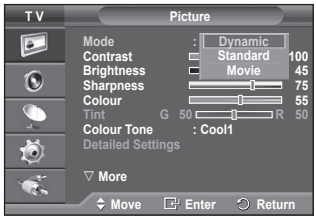


Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

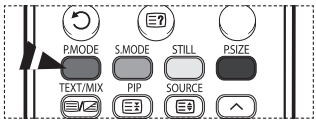


1. Press the **MENU** button to display the menu.
2. Press the **ENTER/OK** button to select **Picture**.
3. Press the **ENTER/OK** button again to select **Mode**.
4. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available modes: **Dynamic**, **Standard**, **Movie**
   ➢ The settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or HDMI)
5. Press the **EXIT** button to exit.



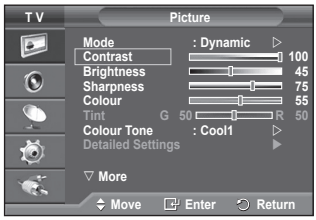
➢ ◆ Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
◆ Choose **Standard** for general TV watching mode.
◆ Choose **Movie** when viewing the movie.

➢ You can select these options simply by pressing the **P.MODE** button on the remote control.

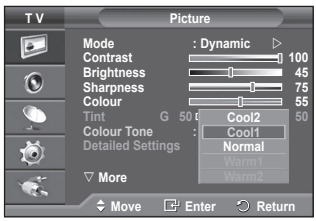


Customizing the Picture Settings

Your television has several setting options that allow you to control the picture quality.



1. Press the **MENU** button to display the menu.
2. Press the **ENTER/OK** button to select **Picture**.
3. Press the **ENTER/OK** button again to select **Mode**.
4. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available modes: **Dynamic**, **Standard**, **Movie**
5. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
6. When you are satisfied with your setting, press the **ENTER/OK** button.
7. Press the **EXIT** button to exit.



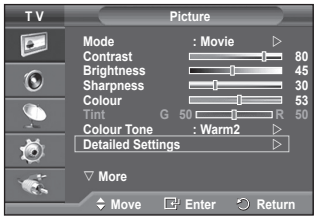
◆ **Contrast** – **Brightness** – **Sharpness** – **Colour** – **Tint**
➢ In TV, AV, S-Video modes of the PAL system, you cannot use the Tint function.
Contrast – **Brightness** – **Colour Tone** : PC Mode
Press the ◄ or ► button until you reach the optimal setting.

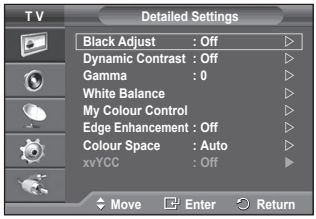
◆ **Colour Tone**: **Cool2/Cool1/Normal/Warm1/Warm2**
➢ When the picture mode is set to **Dynamic** or **Standard**, **Warm1** and **Warm2** cannot be selected.

◆ **Reset**: **Cancel/OK**
Select **OK**. You can return to the factory defaults picture settings.
➢ The reset function is set for each picture mode and colour tone.

Configuring Detailed Settings on the Picture

You can set detail picture settings.





1. Press the **MENU** button to display the menu.
2. Press the **ENTER/OK** button to select **Picture**.
3. Press the ▲ or ▼ button to select **Detailed Settings**, then press the **ENTER/OK** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available options: **Black Adjust**, **Dynamic Contrast**, **Gamma**, **White Balance**, **My Colour Control**, **Edge Enhancement**, **Colour Space**, **xvYCC**.
5. When you are satisfied with your setting, press the **ENTER/OK** button.
6. Press the **EXIT** button to exit.

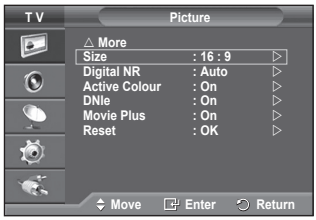
➢ When the picture mode is set to **Movie** or **Standard**, **Detailed Settings** can be selected.

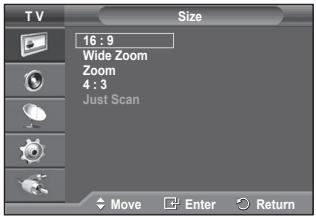
➢ If **DNIe** is **Off** or **Demo**, the **Detailed Settings** cannot be selected when the Picture mode is in **Standard** mode.

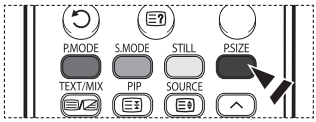
- **Black Adjust**: **Off/Low/Medium/High**
  You can directly select the black level on the screen to adjust the screen depth.
- **Dynamic Contrast**: **Off/Low/Medium/High**
  You can adjust the screen contrast so that the optimal contrast is provided.
- **Gamma**: **-3 ~ +3**
  You can adjust the middle brightness of pictures.
  Press the ◄ or ► button until you reach the optimal setting.
- **White Balance**: **R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**
  You can adjust the colour temperature for more natural picture colours.
  R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain:
  Changing the adjustment value will refresh the adjusted screen.
  Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
  Press the ◄ or ► button until you reach the optimal setting.
  Reset: The previously adjusted white balance will be reset to the factory defaults.
- **My Colour Control**: **Pink/Green/Blue/White/Reset**
  This setting can be adjusted to suit your personal preferences.
  Pink/Green/Blue/White: Changing the adjustment value will refresh the adjusted screen.
  Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
  Press the ◄ or ► button until you reach the optimal setting.
  ➢ When running the **My Colour Control** feature, the current picture is captured as a still image before being displayed on the screen.
  Reset: The previously adjusted colours will be reset to the factory defaults.
- **Edge Enhancement**: **Off/On**
  You can emphasize object boundaries.
- **Colour Space**: **Auto/Wide**
  You can set the colour reproduction space for the input signal to **Auto** or **Wide**.
- **xvYCC: Off/On**
  Setting the xvYCC mode to On increases detail and colour space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks. You must set the Picture Mode to Movie to enjoy this feature.
  ➢ The xvYCC function works only in Component or HDMI mode.

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.







1. Press the **MENU** button to display the menu.
2. Press the **ENTER/OK** button to select **Picture**.
3. Press the ▲ or ▼ button to select **Size**, then press the **ENTER/OK** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.

   Available options: **16 : 9**, **Wide Zoom**, **Zoom**, **4 : 3**, **Just Scan**
   - **16 : 9**: Sets the picture to 16:9 wide mode.
   - **Wide Zoom**: Magnify the size of the picture more than 4:3. Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ► or **ENTER/OK** button.
   - **Zoom**: Magnify the size of the picture vertically on screen.
   - **4 : 3**: Sets the picture to 4:3 normal mode.
   - **Just Scan**: Displays the input scenes as they are without any cutoff when HDMI 720p, 1080i, 1080p signals are input.

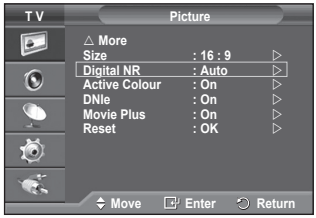
   ➢ With the HDMI Just Scan picture size, depending on the AV devices, the screen may be cut off or a specific appears on the screen.
5. Press the **EXIT** button to exit.

➢ You can change the picture size simply by pressing the **P.SIZE** button on the remote control.
➢ Depending on the input source, the picture size options may vary.
➢ The items available may differ depending on the selected mode.

Positioning and Sizing the screen using Zoom

- Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
- Move the screen up/down using the ▲ or ▼ button after selecting the by pressing the ◄ or ► button.
- Resize the screen vertically using the ▲ or ▼ button after selecting the by pressing the ◄ or ► button.

Digital NR / Active Colour / DNIe / Movie Plus

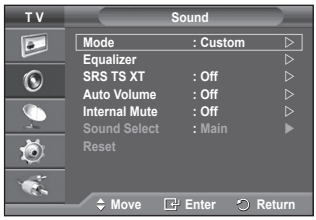


1. Press the **MENU** button to display the menu.
2. Press the **ENTER/OK** button to select **Picture**.
3. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available options: **Digital NR**, **Active Colour**, **DNIe, Movie Plus**
4. When you are satisfied with your setting, press the **ENTER/OK** button.
5. Press the **EXIT** button to exit.

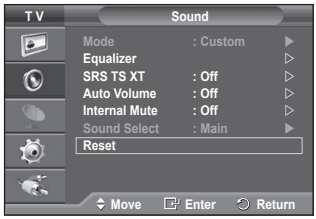
- **Digital NR**: **Off/Low/Medium/High/Auto**
  If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.
- **Active Colour**: **Off/On**
  If you turn on this option, the colours of the sky and grass will be stronger and clearer for a more vivid on-screen picture.
  - ➢ This function is not available in **PC** mode.
  - ➢ This function is available in **Dynamic** mode.
- **DNIe**: **Off/Demo/On**
  This TV includes the DNIe function so as to provide a high visual quality. If you set DNIe to on, you can view the screen with the DNIe feature activated. If you set the DNIe to Demo, you can view the applied DNIe and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.
  - ➢ **DNIe™** (**D**igital **N**atural **I**mage **e**ngine) DNIe
    This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology will fit every signal into your eyes.
  - ➢ This function is not available in **PC** mode.
  - ➢ When the picture mode is set to **Movie**, **DNIe** cannot be selected.
- **Movie Plus**: **Off/On**
  You can view more natural skin and clear text even in fast moving scenes.
  - ➢ This function is not supported in the Wide Zoom,Zoom and Just Scan mode.

Sound Features

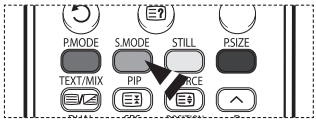
1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Sound**, then press the **ENTER/OK** button.
3. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available options: **Mode**, **Equalizer**, **SRS TS XT**, **Auto Volume**, **Internal Mute**, **Sound Select**, **Reset**
4. When you are satisfied with your setting, press the **ENTER/OK** button.
5. Press the **EXIT** button to exit.



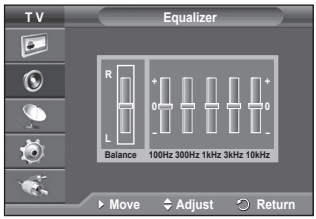
< If Game Mode is On >



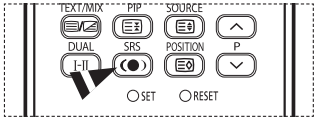
- **Mode**: **Standard/Music/Movie/Speech/Custom**
  You can select the type of special sound effect to be used when watching a given broadcast.
  - ➢ ◆ Choose **Standard** for the TV standard factory settings.
    - ◆ Choose **Music** when watching the music videos or concerts.
    - ◆ Choose **Movie** when watching movies.
    - ◆ Choose **Speech** when watching a show that is mostly dialog(i.e., news).
    - ◆ Choose **Custom** to recall your personalized settings.
  - ➢ You can select these options simply by pressing the **S.MODE** button on the remote control.



- **Equalizer**: **Balance/100Hz/300Hz/1kHz/3kHz/10kHz**
  The television has several settings which allow you to control the sound quality.
  - ➢ ◆ **R/L Sound Balance Adjustment**:
    To adjust the sound balance of the R/L speakers.
    - ◆ **Bandwidth Adjustment(100Hz, 300Hz, 1kHz, 3kHz, 10kHz)** : To adjust the level of different bandwidth frequencies.
  - ➢ If you make any changes to these settings, the sound standard is automatically switched to **Custom**.



- **SRS TS XT**: **Off/On**
  TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.
  - ➢ TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.
  - ➢ You can select these options simply by pressing the **SRS** button on the remote control.



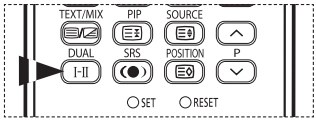
- **Auto Volume**: **Off/On**
  Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

Continued...

- **Internal Mute**: **Off/On**
  If you want to hear the sound through separate speakers, cancel the internal amplifier.
  ➢ The **VOL +**, **VOL –**, **S.MODE**, and **MUTE** buttons do not operate when the Internal Mute is set to On.
- **Sound Select**: **Main/Sub**
  When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.
  - **Main**: Used to listen to the sound of the main picture.
  - **Sub**: Used to listen to the sound of the sub picture.
- **Reset**
  If **Game Mode** is **On**, the Reset Sound function is activated. Selecting the **Reset** function after setting the equalizer resets the equalizer setting to the factory defaults.

Selecting the Sound Mode (depending on the model)

The DUAL I-II button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I" or "Stereo", depending on the current transmission.



	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM** ⟷ **Mono** (Normal)
	NICAM Stereo	**NICAM Stereo** ⟷ **Mono** (Normal)
	NICAM DUAL-I/II	**NICAM DUAL-1** → **NICAM DUAL-2** → **Mono** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Bilingual or DUAL-I/II	**DUAL I** ⟷ **DUAL II**
	Stereo	**Stereo** ⟷ **Mono** (Forced mono)

➢
- If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.

Time Features

1 Press the **MENU** button to display the menu.

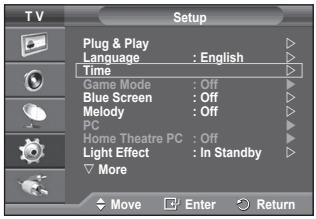
2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.

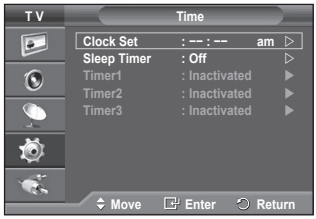
3 Press the ▲ or ▼ button to select **Time**, then press the **ENTER/OK** button.

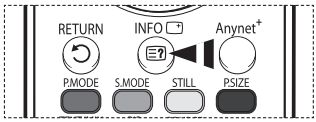
4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
Available options: **Clock Set**, **Sleep Timer**, **Timer1**, **Timer2**, **Timer3**

5 When you are satisfied with your setting, press the **ENTER/OK** button.

6 Press the **EXIT** button to exit.







◆ **Clock Set**
You can set the television clock so that the current time is displayed when pressing the **INFO** button on the remote control. You must also set the time if you wish to use the automatic on or off timers.
- Press the ◄ or ► button to select **Month, Day, Year, Hour**, **Minute**, or **am/pm**.
Set these by pressing the ▲ or ▼ button.

➢ You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.

➢ In the event of a power interruption or the set being turned off at the supply, the settings for the Clock will be lost.

◆ **Sleep Timer**
You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.
- Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) for staying on by pressing the ▲ or ▼ button.

◆ **Timer1 / Timer2 / Timer3**
You can set the On/Off timers so that the television will switch on or off automatically at the time you select.

☛ You must set the clock first.
- Press the ◄ or ► button to select the required item below.
Press the ▲ or ▼ button to adjust to the setting satisfied.
On Time : Select hour, minute, **am/pm**, and **No/Yes**. (To activate timer with the setting satisfied, set to Yes.)
Off Time : Select hour, minute, **am/pm**, and **No/Yes**. (To activate timer with the setting satisfied, set to Yes.)
Repeat : Select **Once**, **Everyday**, **Mon - Fri**, **Mon - Sat**, or **Sat - Sun**.
Volume : Select the required volume level.
Programme : Select the required channel.

➢ You can set the hour, and minute directly by pressing the number buttons on the remote control.

☛ **Auto Power Off**
When you set the timer “On”, the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer “On” mode and prevents overheating, which may occur if a TV is on for too long time.

Language / Blue Screen / Melody / Light Effect / Energy Saving / HDMI Black Level

1 Press the **MENU** button to display the menu.
2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
3 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
4 When you are satisfied with your setting, press the **ENTER/OK** button.
5 Press the **EXIT** button to exit.

◆ **Language**
It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

◆ **Blue Screen**: **Off/On**
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the Blue Screen to Off.

◆ **Melody**: **Off/Low/Medium/High**
The TV power on/off melody sound can be adjusted.

◆ **Light Effect**: **Off/ In Standby/In Watching TV/Always**
You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- Off: The blue LED is always off.
- In Standby: The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- In Watching TV: The blue LED lights when watching TV and it turns off when your TV is turned off.
- Always: The blue LED always lights.

➢ Set the **Light Effect** to **Off** to reduce the power consumption.

◆ **Energy Saving**: **Off/Low/Medium/High**
This feature adjusts the screen brightness depending on the surrounding lighting conditions.

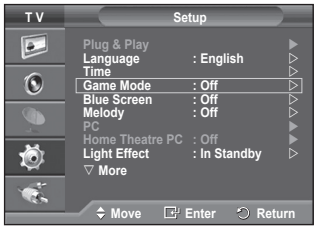
- Off: Switches off the Energy Saving mode.
- Low: Operates in standard mode regardless of the surrounding illumination.
- Medium: Enters medium power saving mode regardless of the surrounding illumination.
- High: Enters maximum power saving mode regardless of the surrounding illumination.

◆ **HDMI Black Level**: **Normal/Low**
Using this function, you can adjust the image quality when the screen burn (appearance of black level, low contrast, low colour, etc.) is encountered by the HDMI input for RGB limited range (16 to 235).

➢ This function is active only when the externel input connects to HDMI(RGB signals).

Using the Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.



1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Game Mode**, then press the **ENTER/OK** button.
4. Select **Off** or **On** by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
5. Press the **EXIT** button to exit.

➢ **Restrictions on Game mode (Caution)**
- ◆ To disconnect the game console and connect another external device, set Game Mode to Off.
- ◆ If you display the TV menu in Game Mode, the screen shakes slightly.
- ◆ The mark (🎮) appears on the screen which means that Game Mode is On with the selected source.

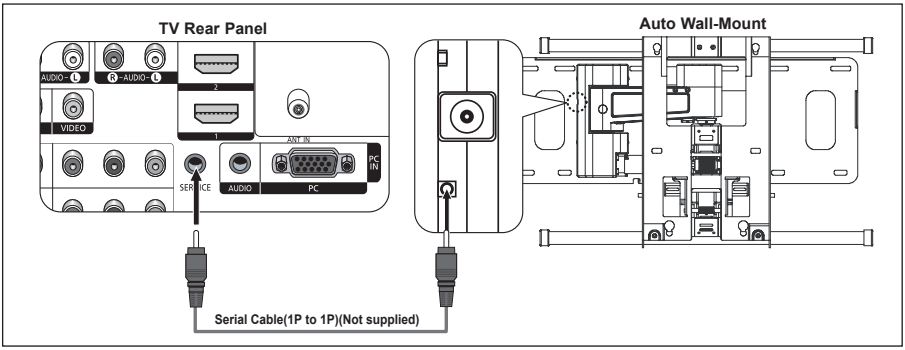
➢ **If Game Mode is On :**
- ◆ Picture Mode is automatically changed to Standard and users cannot change the mode.
- ◆ Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
- ◆ The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

➢ Game Mode is not available in TV mode.

➢ If the picture is poor when external device is connected to TV, check if Game Mode is On. Set Game Mode to Off and connect external devices.

Wall- mount adjustment (Sold separately) (PS-50P91FH)

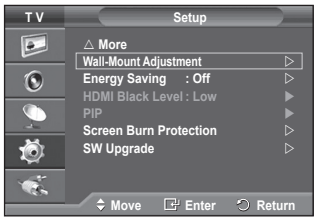
Once the wall mount is installed, the position of your TV can be easily adjustable.



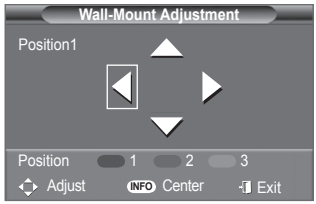
Entering the menu

1 Press the **MENU** button to display the menu.
Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.

2 Press the ▲ or ▼ button to select **Wall-Mount Adjustment**, then press the **ENTER/OK** button.



3 Adjust to the desired position using the ▲/▼/◄/► buttons.
Press the **EXIT** button to exit.



➢ If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.

➢ When you turn the power off, your TV moves to the initial installation position.When you turn the power on, your TV moves to the last remembered position you adjusted.

Using the remote Control Buttons

Button	Operations	
	Wall-mount angle adjustment	Tilt Up, Tilt Down, Move right, Move left
	Reset	Moves to the initial installation position
	Remembering the position and moving to the remembered position	Remembers 3 positions with the Red, Green and Yellow buttons. Moves to the remembered position using these 3 colour buttons.

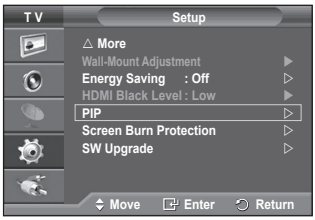
➢ For installation, refer to the Installation Manual provided.

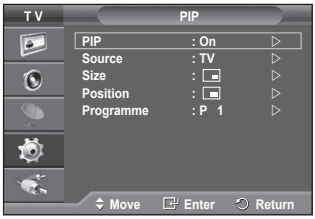
➢ For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.

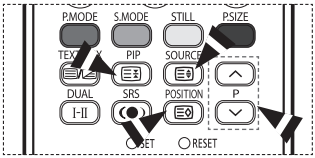
➢ This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer

Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture. In this way you can watch TV program or monitor the video input from any connected devices.







1 Press the **MENU** button to display the menu.

2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.

3 Press the ▲ or ▼ button to select **PIP**, then press the **ENTER/OK** button.

4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
Available options: **PIP(Off/On)**, **Source**, **Size**, **Position**, **Programme**

5 When you are satisfied with your setting, press the **ENTER/OK** button.

6 Press the **EXIT** button to exit.

◆ **PIP**: **Off/On**
You can activate or deactivate the PIP function.

Main picture	Sub picture
Component1, 2	TV, AV1, AV2
HDMI1, 2, 3	TV, AV1, AV2
PC	TV, AV1, AV2

➢ You can select these options simply by pressing the **PIP** button on the remote control.

◆ **Source**: **TV/AV1/AV2**
You can select a source of the sub-picture.
➢ You can select these options simply by pressing the **SOURCE** button on the remote control.

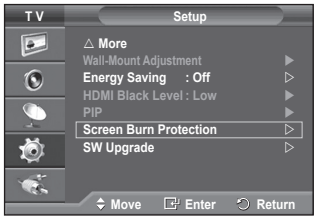
◆ **Size:** ◪ / ◫ / ◻
You can select a size of the sub-picture.
➢ It is available in HDMI mode.

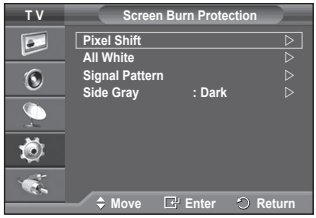
◆ **Position:** ◪ / ◪ / ◪ / ◪
You can select a position of the sub-picture.
➢ You can select these options simply by pressing the **POSITION** button on the remote control.

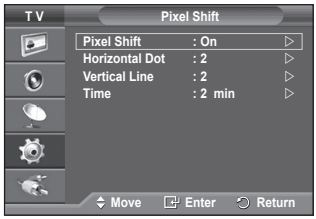
◆ **Programme**
You can select a channel of the sub-picture only when the **Source** is set to **TV**.
➢ You can select the channel of the sub picture simply by pressing the **P** ∧ or **P** ∨ button.

Screen Burn Protection

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.







1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Screen Burn Protection**, then press the **ENTER/OK** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available options: **Pixel Shift**, **All White**, **Signal Pattern**, **Side Gray**
5. When you are satisfied with your setting, press the **ENTER/OK** button.
6. Press the **EXIT** button to exit.

◆ **Pixel Shift**: Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after image on the screen.
   - Set **Pixel Shift** to **On** by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   - Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
     Available options: **Horizontal Dot**, **Vertical Line**, **Time**

   ➢ Optimum condition for pixel shift;

	PC	TV/AV/S-Video/ Component/HDMI
Horizontal Dot	1	2
Vertical Line	1	2
Time (minute)	2 min	2 min

➢ The Pixel Shift value may differ depending on the monitor size (inches) and mode.

◆ **All White**: This function helps remove after images on the screen by changing the colour of pixels to white. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.

◆ **Signal Pattern**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.

◆ **Side Gray**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
   Dark: When you set the screen ratio to 4:3, it darkens the left and right sides.
   Light: When you set the screen ratio to 4:3, it brightens the left and right sides.

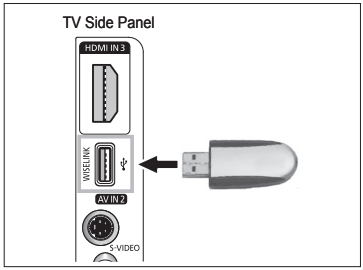
➢ To remove after images on the screen, use either **All White** or **Signal Pattern** function. Although both of the two functions remove after images on the screen, **Signal Pattern** is more effective.

➢ The after image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after images on the screen. If after image is not improved after the execution of the function, repeat the function again.

➢ Press any button on the remote control to cancel this feature.

Upgrading the Software

Samsung may offer upgrades for TV's firmware in the future. Please contact the Samsung call center to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on located on the side of your TV.

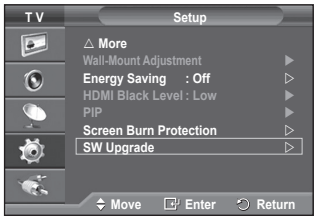


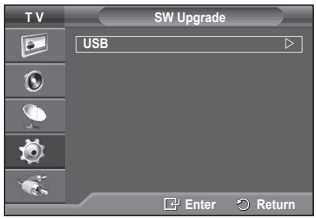
1 Insert a USB drive containing the firmware upgrade into the USB Upgrade Port on the side of the TV.

2 Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.

3 Press the ▲ or ▼ button to select **SW Upgrade**, then press the **ENTER/OK** button.

4 Press the **ENTER/OK** button. The message **Scanning for USB... It may take up to 30 seconds.** is displayed. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will shut off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete.





Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 Right click the mouse on the Windows Desktop, then click on **Properties**. The **Display Properties** will be displayed.

2 Click on **Settings tab**, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colours settings.

3 Click on **Advanced**. A new settings dialog box will be displayed.

4 Click on the **Monitor** tab, then set the **Screen refresh rate** with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the **Screen refresh rate**.

5 Click on **OK** to close the window, then Click on **OK** button to the **Display Properties** window. Automatic re-booting may commence at this moment.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	-/+
	720 x 400	31.469	70.087	28.322	-/-
VESA	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	+/+
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	-/-
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	+/+
	1024 x 768	60.023	75.029	78.750	+/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1600 x 1200	75.000	60.000	162.000	+/-
VESA CVT	1920 x 1080	66.587	59.934	138.500	+/-

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
VESA	640 x 480	31.469	59.940	25.175	-/-
	800 x 600	37.879	60.317	40.000	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1280 x 1024	63.981	60.020	108.000	+/+
VESA CVT	1920 x 1080	66.587	59.934	138.500	+/-
VESA CEA	1920 x 1080	67.500	60.000	148.500	+/+

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.

Setting the PC

➢ Preset to the **PC** mode by pressing the **SOURCE** button.

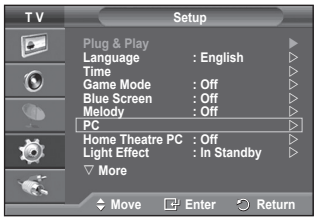
1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **PC**, then press the **ENTER/OK** button.
4. Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
   Available options: **Image Lock**, **Position**, **Auto Adjustment**, **Image Reset**
5. When you are satisfied with your setting, press the **ENTER/OK** button.
6. Press the **EXIT** button to exit.

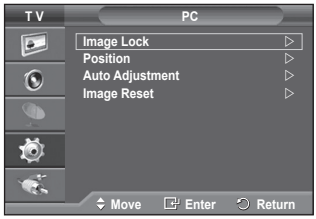
◆ **Image Lock**: **Coarse/Fine**
The purpose of picture quality adjustment is to remove or reduce picture noise.
If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again.
After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.
   1. Press the ▲ or ▼ button to select **Coarse** or **Fine**, then press the **ENTER/OK** button.
   2. Press the ◄ or ► button to adjust the screen quality, vertical stripes may appear or the picture may be blurry. Press the **ENTER/OK** button.

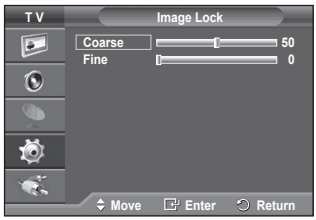
◆ **Position**
Adjust the PC's screen positioning if it does not fit the TV screen.
   1. Adjust the position by pressing the ▲/▼/◄/► button.
   2. Press the **ENTER/OK** button.

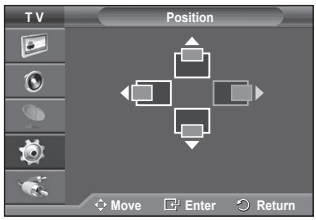
◆ **Auto Adjustment**
Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal.
The values of fine, coarse and position are adjusted automatically.

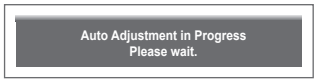
◆ **Image Reset**
You can replace all image settings with the factory default values.

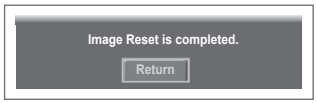












Setting the Home Theatre PC

➢ Preset to the **PC** mode by pressing the **SOURCE** button.

You can view higher quality pictures by configuring the screen settings in PC Mode.
If you set the Home Theatre PC function to On, you can configure the Detailed Settings (when Picture Mode is set to Standard or Movie) as in PC Mode.

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **Home Theatre PC**, then press the **ENTER/OK** button.
4. Select **Off** or **On** by pressing the ▲ or ▼ button, then press the **ENTER/OK** button.
5. Press the **EXIT** button to exit.

➢ This function is available only in **PC** mode.

What is Anynet+?

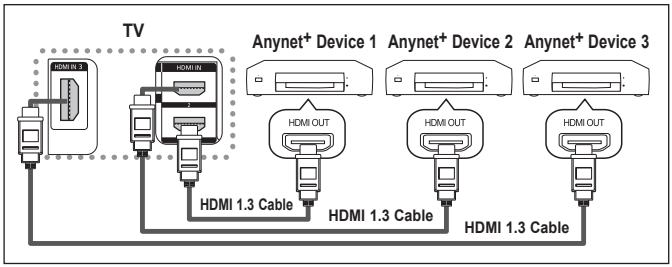
Anynet+ is an AV network system that enables an easy-to-use AV interface for users by controlling all connected AV devices through the Anynet+ menu when Samsung Electronics AV devices are connected.

Connecting Anynet+ Devices

The Anynet+ system supports AV devices supporting Anynet+ only.

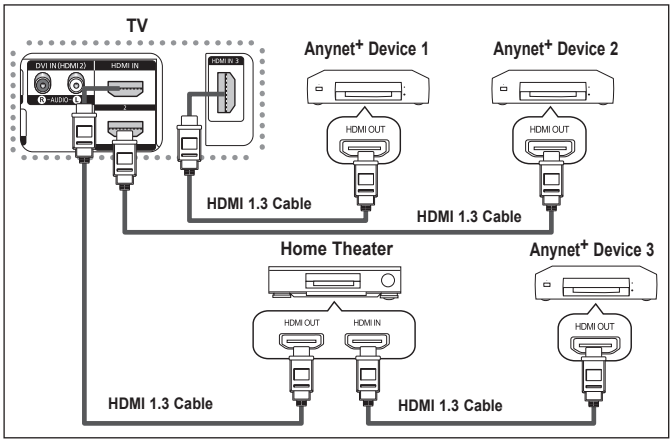
Check if there is an Anynet+ mark on the AV device to be connected to the TV.

To directly connect to TV



Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

To connect to Home Theater



1 Connect the [HDMI 1], [HDMI 2] or [HDMI 3] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

2 Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

- Connect only one receiver.
- You can connect an Anynet+ device using the HDMI Cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 8 AV devices in total.

Setting Up Anynet+

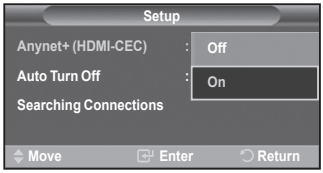
The following settings are to use Anynet+ functions.

Using the Anynet+ Function

1. Press the **Anynet+** button.
   Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** button.
2. Press the **ENTER/OK** button to select **Anynet+ (HDMI-CEC)**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **On**, then press the **ENTER/OK** button.

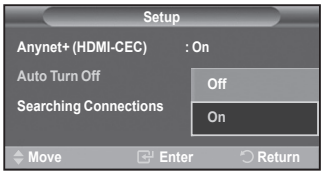
➢ The Anynet+ (HDMI-CEC) function is enabled.

➢ If you select **Off**, Anynet+ (HDMI-CEC) is disabled.



Turning an Anynet+ Device Off Automatically when the TV is Turned Off

2. Press the ▲ or ▼ button to select **Auto Turn Off**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select **On**, then press the **ENTER/OK** button.
   ➢ The Auto turn off function is enabled.
   ➢ If you select **Off**, the Auto turn off function is canceled.
   Press the **EXIT** button to exit.



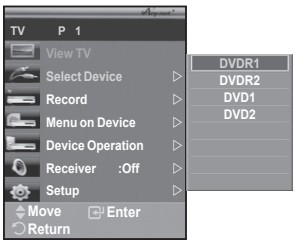
➢ The Select Device setting of the TV remote control is to be set to TV to use the Anynet+ function.

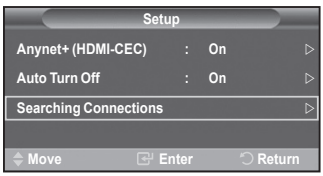
➢ If you set Auto Turn Off to On, connected external devices are also turned off when the TV is turned off. However, if the device is recording, it may not be turned off.

➢ When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.

Scanning and Switching between Anynet+ Devices

1. Press the **Anynet+** button.
2. Press the ▲ or ▼ button to select **Select Device**, then press the **ENTER/OK** button.
3. Press the ▲ or ▼ button to select to a particular device and press the **ENTER/OK** button.
   It is switched to the selected device.
4. If you cannot find a device you want, press the ▲ or ▼ button to select **Searching Connections**, then press the **ENTER/OK** button.
   The meassage **Configuring Anynet+ connection** is displayed. When searching devices completes, the connected devices are listed in the Anynet+ menu.





➢ Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.

➢ The time required to scan for devices is determined by the number of connected devices.

➢ When the device scan is complete, the number of found devices is not displayed.

➢ Although the TV automatically scans devices when it is turned on using the **POWER** button, devices connected when the TV is on or under a specific circumstance are not displayed in the device list. Therefore select **Searching Connections** menu to search devices.

➢ If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Anynet+** button.

Continued...

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Switches from Anynet+ to TV broadcast mode.
Select Device	Your TV connects to the corresponding device.
Record	Starts a recording. (This menu works only for a device supporting recording.)
Menu on Device	Shows the menu of the connected device. Example. When a DVD Recorder is connected, the DVD Recorder's title menu appears.
Device Operation	Shows the play control menu of the connected device. Example. When a DVD Recorder is connected, the play control menu of the DVD Recorder appears.
Receiver	Sound is output through the receiver.
Setup	You can set the environment for using Anynet+.

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER/OK** buttons Colour buttons **EXIT** button
	After switching to the device, while playing a file	◄◄ (Backward search) ►►(Forward search) ■(Stop) ►‖ (Play/Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV program	**CH** ▲/▼ button
Audio Device	When Receiver is activated	**VOL +/-** button **MUTE** button

- The Anynet+ function only works when the remote control is set to TV.
- The **REC** button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the side of the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. In this case, re-select the Anynet+ device.
- The Anynet+ functions don't operate for the products from other manufacturers.
- In Anynet+ mode, the colour buttons may not work properly.
- The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV program using a recorder.

Press the **REC** button.
Recording begins. (Only when the Anynet+ enabled recording device is connected.)

- The current TV program is recorded in the Watching TV status. If you are watching video from another device, the video from the device is recorded.
- You can also record the source streams by selecting **Record** after pressing the Anynet+ button.

Listening through a Receiver

You can listen to sound through a receiver instead of the TV speaker.

1. Press the **Anynet+** button.
   Press the ▲ or ▼ button to select **Receiver**, then press the **ENTER/OK** button.
2. Press the ◄ or ► button to select to **On**, then press the **ENTER/OK** button.
   Now you can listen to sound through the receiver.
3. Press the **EXIT** button to exit.

➢ When the receiver is set to On, you can listen to the TV sound through the 2-channel receiver.

➢ If the receiver is exclusively for a home theater only (supporting audio only), it may not appear in the device list.

➢ In case of a content with copyright problem, listening through the receiver may not properly operate.

➢ When executing WISELINK, the listening through the receiver may not work properly.

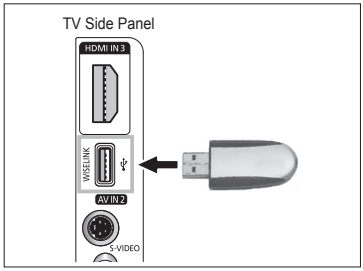
➢ When listening through the receiver, there are restrictions for using the PIP and audio-related menu.

Check Points before Requesting Service

Symptom	Solution
Anynet+ does not work.	■ Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. ■ Connect only one receiver. ■ Check if the Anynet+ device power cord is properly connected. ■ Check the Anynet+ device's Video/Audio/HDMI 1.3 Cable connections. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Check whether the TV remote control is in TV mode. ■ Check whether it is Anynet+ exclusive remote control. ■ Anynet+ doesn't work at a certain condition. (Searching channels, Operating WISELINK)
I want to start Anynet+.	■ Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. ■ Press the **TV** button on the TV remote control to switch to TV. Then press the Anynet+ button to show the **Anynet+** menu and select a menu you want.
I want to exit Anynet+.	■ Select **View TV** in Anynet+ menu. ■ Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. ■ Press any of **CH**, **CH LIST**, **PRE-CH**, and such to change to the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The Connecting to Anynet+ device… message appears on the screen.	■ You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. ■ Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	You cannot use the play function when an auto channel scan is in progress. Stop the currently running function.
The connected device is not displayed.	■ Check whether or not the device supports Anynet+ functions. ■ Check whether or not the HDMI 1.3 Cable is properly connected. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Search Anynet+ devices again. ■ You can connect an Anynet+ device using the HDMI 1.3 Cable only. Some HDMI cables may not support Anynet+ functions.
The TV program cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.

Using the WISELINK Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3) saved on a USB Mass Storage Class (MSC) device.



Press the **POWER** button on the remote control or front panel. Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV. If you enter the WISELINK mode with no USB device connected the message **There is no device connected** will appear. In this case, insert the USB device, exit the screen by pressing the **WISE LINK** button on the remote control and enter the WISELINK screen again.

Only alphanumeric characters must be used as a folder name or filename (photo, music).

The file system only supports FAT16/32 (The NTFS file system is not supported)

Certain types of USB Digital camera and audio devices may not be compatible with this TV.

Wiselink only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)

Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data.SAMSUNG is not responsible for any data file damage or data loss. Recommended image resolution for Wiselink is 6 mega pixels.

Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB Compatibility problem.

Only MP3 and JPEG file formats are supported.

The Wiselink mp3 format only supports music files with a high sampling frequency (32 kHz, 44.1 kHz, or 48 kHz).

We recommend the sequential jpeg format. Progressive jpeg uses a lot of memory and decoding may fail.

Do not disconnect the USB device while it is (Loading).

Neither PTP (Picture Transfer Protocol) nor MTP (Media Transfer Protocol) is supported.

The playing duration of an mp3 file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.

The higher the resolution of the image, the longer it takes to display on the screen.

If the horizontal resolution of an image is higher than 5000, it cannot be decoded.

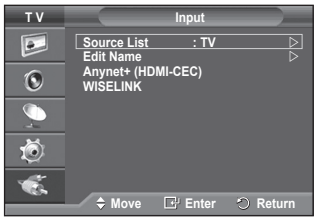
If the vertical resolution of an image is higher than 4000, it cannot be decoded.

The Photo or Music List displays up to 300 folders or files.

Using the WISELINK Menu

1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Input**, then press the **ENTER/OK** button.

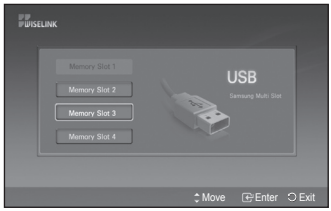
2 Press the ▲ or ▼ button to select **WISELINK**, then press the **ENTER/OK** button.



3 Press the ▲ or ▼ button to select the corresponding USB Memory Device, then press the **ENTER/OK** button.

➢ The WISELINK menu differs depending on the USB Memory Device connected to TV.

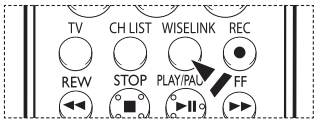
➢ Some devices may not be supported due to compatibility problems.



4 Press the ◄ or ► button to move to an icon, then press the **ENTER/OK** button.

➢ To exit WISELINK mode, press the **WISELINK** button on the remote control.

➢ Press the **WISELINK** button on the remote control to display a WISELINK menu.



Using the Remote Control Button in WISELINK Menu

Button	Operations
	Move the cursor and select an item.
ENTER	Select the currently selected item.
PLAY/PAUSE	Play or pause the Slide Show or MP3 file.
RETURN	Return to the previous menu.
INFO	Run various functions from the Photo and Music menus.
STOP	Stop the current slide show or MP3 file.
REW / FF	Page Up or Down (file list item)
EXIT	Stop the current function and return to the previous high-level menu.
	Stop WISELILNK mode. (Returns to TV mode)

Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an USB memory device.

1 Complete Steps 1 to 3 of **Using the WISELINK Menu**. (Refer to page 38)

2 Press the ◄ or ► button to move to **Photo**, then press the **ENTER/OK** button. The saved file information is displayed as a folder or file.

3 Press the ▲, ▼, ◄ and ► buttons to select a file.

- Pressing the **ENTER/OK** button over a photo icon shows the currently selected photo in full screen.
- Pressing the **ENTER/OK** button over a folder icon shows the JPEG files included in the folder.

To exit WISELINK mode, press the **WISELINK** button on the remote control.

➢ Moving to a photo may take a few seconds to load the file. At this point, the (Loading) icon will appear at the top left of the screen.

➢ It takes time to show JPEG files as Thumbnail images.

➢ This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.

➢ The files are displayed on a page. 15 thumbnail photos are displayed per page.

➢ The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.

➢ Certain types of USB Digital camera and audio devices may not be compatible with this TV.

➢ Folders are displayed first and they are followed by all JPEG files in the current folder. The folders and JPEG files are sorted in alphabetical order.

➢ If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen.

➢ While a full screen is displayed, ◄ or ► button will let you see another photo image in the same folder.

➢ Press the **PLAY/PAUSE** button when a Photo icon is selected to start a Slide Show.

➢ Photos without EXIT information may not be displayed as thumbnail images in the PHOTO LIST depending on the picture quality and resolution.

Viewing a Slide Show

4 Press the **INFO** button to display the option(**Start Slide Show**, **Select All**).

5 Press the ▲ or ▼ button to select **Start Slide Show** then press the **ENTER/OK** button.

➢ During the slide show, files are displayed in order from the currently shown file.

➢ MP3 files can be automatically played during the Slide Show if the Default Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the USB Memory Device.

6 Press the **INFO** button during the slide show to set the following options (**Slide Show Speed**, **Background Music**, **Background Music Setting**, **List**).
Press the ▲ or ▼ button to select the option, then press the **ENTER/OK** button.

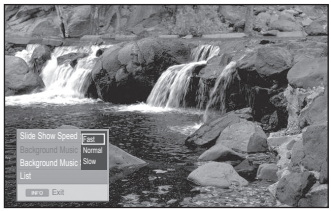
◆ After setting the option press the **ENTER/OK** button to make a change.

Continued...

Using the Menu during a Slide Show

Slide Show Speed:

Select to control the slide show speed.
Press the ▲ or ▼ button to select the required option(**Fast**, **Normal**, **Slow**), then press the **ENTER/OK** button.



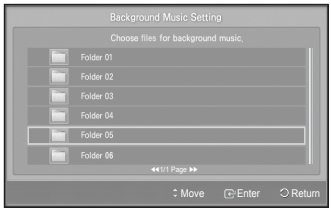
Background Music:

Select to choose whether you want to play an MP3 file during a slide show.
Press the ▲ or ▼ button to select the required option(**On**, **Off**), then press the **ENTER/OK** button.

Background Music Setting:

While the slide show is in progress, MP3 files and folders under the same directory are displayed.
Select a folder using the ▲ or ▼ button and press the **ENTER/OK** button. The selected folder will be highlighted.
Press the **RETURN** button again to return to the slide show screen. The selected background music is played.

➢ If you turn Off the Background Music, even if the Background Music Settings have been set up, the background music will not be played.



List:

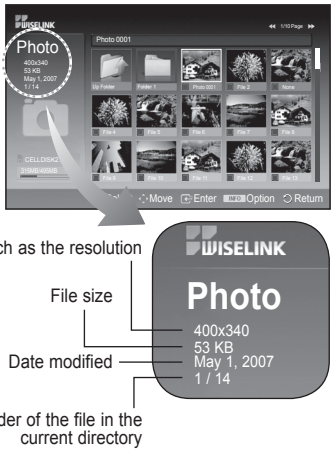
The file information is displayed as a folder or JPEG file.
To exit WISELINK mode, press the **WISELINK** button on the remote control.

➢ When selecting a photo file, the photo file information is displayed on the left side of the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).

: Folder icon

: Photo icon

: Move to the previous folder stage icon



Continued...

Using the Option Menu

1. Complete Steps 1 to 3 of **Using the WISELINK Menu**. (Refer to page 38)
2. Press the ◄ or ► button to move to **Photo**, then press the **ENTER/OK** button.
   The saved file information is displayed as a folder or file.
3. Press the ▲, ▼, ◄ and ► button to select a file, then press the **ENTER/OK** button. Pressing the button over a photo thumbnail displays the photo in full screen.
4. Press the **INFO** button to display the option (**Start Slide Show**, **Zoom**, **Rotate**, **List**)

Zoom:

- Press the ▲ or ▼ button to select **Zoom**, then press the **ENTER/OK** button.
- Each time the ▲ or ▼ button is pressed, the photo size increases.(**X2** → **X4** → **Original**)
  - **Original** : Restore a photo to its original size.
  - **X2** : Zoom-in to a photo x2.
  - **X4** : Zoom-in to a photo x4.
- To pan up/down/left/right in the zoomed-in photo, press the **INFO** button to remove option menu, then press the ▲, ▼, ◄ and ► buttons.

➢ The **Rotate**, **Start Slide Show** option is disabled when the **Zoom** option is selected.

Continued...

Rotate:

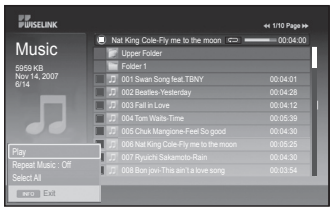
- ◆ Press the ▲ or ▼ button to select **Rotate**, then press the **ENTER/OK** button.
- ◆ Each time the ▲ or ▼ button is pressed, the photo rotates repeatedly.
  - **Original** : This rotates a photo to its original position
  - **90** : This rotates a photo by 90 degrees
  - **180** : This rotates a photo by 180 degrees
  - **270** : This rotates a photo by 270 degrees

➢ The rotated file is not saved.

➢ The **Zoom**, **Start Slide Show** option is disabled when the **Rotate** option is selected.

Using the MP3 List

This menu shows MP3 files from among the files saved on a USB memory device.



: Folder icon

: Music list icon

: Move to the previous folder stage icon

1 Complete Steps 1 to 3 of **Using the WISELINK Menu**. (Refer to page 38)

2 Press the ◄ or ► button to move to **Music**, then press the **ENTER/OK** button.
The saved file information is displayed as a folder or file.

3 Press the ◄ or ► button to move to an icon, then press the **ENTER/OK** button.

➢ ◆ Pressing the **ENTER/OK** button over a musical note icon immediately plays the music file.

◆ Pressing the **ENTER/OK** button over a folder icon shows the music files included in the folder.

◆ To select a file on the next page, press the **REW** or **FF** button to move to the next page.

4 To select all files or a file, press the **INFO** button to display the Music menus.
Press the **ENTER/OK** button to select **Play**, **Repeat Music** or **Select All**.
To exit WISELINK mode, press the **WISELINK** button on the remote control.

Using the Option Menu

Play:
Select to play MP3 files.

➢ Press the **PLAY/PAUSE** button while playing an MP3 file to pause the file.
➢ Press the **STOP** button to exit Play mode.
➢ This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed,even if they are saved on the same USB device.
➢ The selected file is displayed on the top with its playing time.
➢ To adjust the music volume, press the **+** or **-** button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
➢ **FF** or **REW** button does not function during the play.

Repeat Music:

Select to repeatedly play MP3 files in the current folder.
You can select **On** or **Off**

Music function information icon	
Icon	**Function**
	When all music files are being played.
	When a music file is being played.
	When pressing the **PLAY/PAUSE** button on the remote control while music is playing.
	When pressing the **STOP** button on the remote control when music is stopped. The music resumes and the **Stop** text appears at the top of the screen.

Using the Setup Menu

Setup displays the user settings of the WISELINK menu.

1 Complete Steps 1 to 3 of **Using the WISELINK Menu**. (Refer to page 38)

2 Press the ◄ or ► button to move to **Setup**, then press the **ENTER/OK** button.

3 Press the ▲ or ▼ button to select an item you want, then press the **ENTER/OK** button.
(**Slide Show Speed**, **Background Music**, **Background Music Setting**, **Repeat Music**, **Screen Saver**)

4 Press the ▲ or ▼ button to select the option, then press the **ENTER/OK** button.
To exit WISELINK mode, press the **WISELINK** button on the remote control.

Slide Show Speed:

Select to control the slide show speed.
You can select **Fast**, **Normal** or **Slow**.

Background Music:

Select to determine whether to play an MP3 file during a slide show.
You can select Music **On** or Music **Off**.

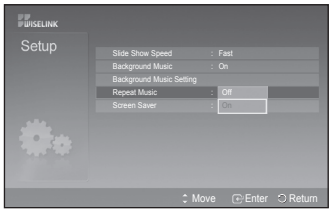
Background Music Setting:

While a slide show is in progress, use the **Background Music Setting** to select a music file to listen to.
Select a MP3 file as the background music.

Continued...

Repeat Music:

Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played.



Screen Saver:

Select to set the waiting time before the screen saver appears.

The screensaver will appear when no button is pressed for 1, 5 or 10 minutes.

Teletext Feature (depending on the model)

Most television stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

☛ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

❶ **TV**
Exit from the teletext display (depending on the model)

❷ **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❹ **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

❺ **(mode)**
Press to select the teletext mode (LIST/FLOF).
If you press it in the LIST mode, it switches into the List save mode.
In the List save mode, you can save teletext page into list using the (store) button.

❻ **(sub-page)**
Used to display the available sub-page.

❼ **(page up)**
Used to display the next teletext page.

❽ **(page down)**
Used to display the previous teletext page.

❾ **(cancel)**
Used to display the broadcast when searching for a page.

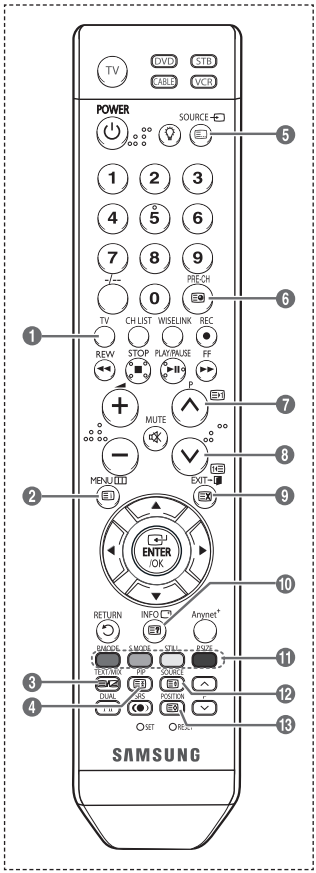
❿ **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

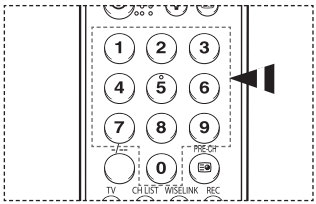
⓫ **Coloured buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way.
To display the previous or next page, press the corresponding coloured button.

⓬ **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again.
To display normal screen, press it once again.

⓭ **(store)**
Used to store the teletext pages.

➢ You can change teletext pages by pressing the numeric buttons on the remote control.

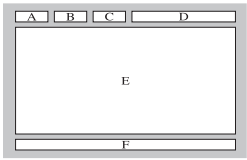




Continued...

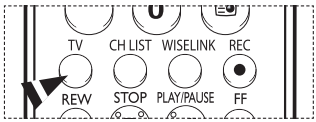
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
- ◆ Entering the page number
- ◆ Selecting a title in a list
- ◆ Selecting a coloured heading (FASTEXT system)

➢ Press the **TV** button to exit from the teletext display.

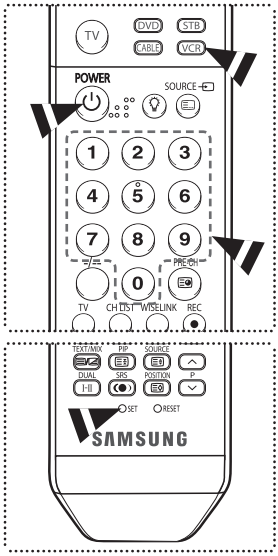


Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

☛ The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.

Setting Up the Remote to Operate Your VCR



1 Turn off your VCR.

2 Press the **VCR** button on your TV's remote control.

3 Press the **SET** button on your TV's remote control.

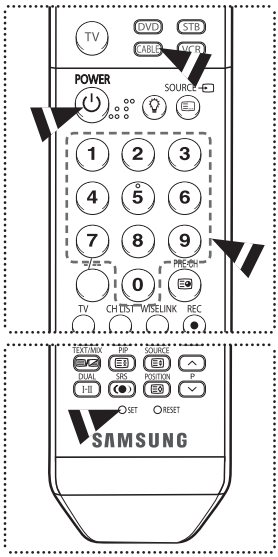
4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 50 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the **POWER** (⏻) button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.

Note on Using Remote Control Modes: VCR
When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.

Setting Up the Remote to Operate Your Cable Box



1 Turn off your cable box.

2 Press the **CABLE** button on your TV's remote control.

3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 51 of this manual for your brand of cable box.
Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the **POWER** (⏻) button on the remote control.
Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

Note on Using Remote Control Modes: Cable Box
When your remote control is in "CABLE" mode, the volume buttons still control your TV's volume.

Continued...

Setting Up the Remote to Operate Your DVD

1 Turn off your DVD.

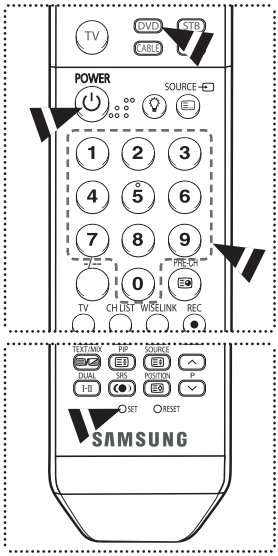
2 Press the **DVD** button on your TV's remote control.

3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 52 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the **POWER** (⏻) button on the remote control.
Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.



Note on Using Remote Control Modes: DVD
When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.

Setting Up the Remote to Operate Your Set Top Box

1 Turn off your STB.

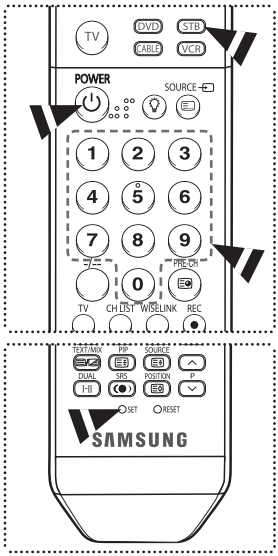
2 Press the **STB** button on your TV's remote control.

3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the STB code listed on page 51 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the **POWER** (⏻) button on the remote control.
Your STB should turn on if your remote is set up correctly.

If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.



Note on Using Remote Control Modes: STB
When your remote control is in "STB" mode, the volume buttons still control your TV's volume.

Continued...

Remote Control Codes

VCR

Brand	Code
SAMSUNG	000 001 002 003 004 005 077 078 079
ADMIRAL	020
AIWA	025
AKAI	004 027 032
AUDIO DYNAMICS	007 026
BELL&HOWELL	018
BROKSONIC	022
CANDLE	002 003 006 008 015 055
CANON	021 056
CITIZEN	002 003 006 008 015 055
COLORTYME	007
CRAIG	002 024
CURTIS MATHES	002 007 008 017 021 025 056 064 066
DAEWOO	003 010 011 012 013 014 015 016
DB	007 026
DIMENSIA	017
DYNATECH	025
ELECTROHOME	034
EMERSON	001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073
FISHER	018 024 028 029 048 051 061
FUNAI	025
GENERAL ELECTRIC	002 005 017 021 056
GO VIDEO	002
LG(Goldstar)	006 007 008 009 010
HARMAN KARDON	007
HITACHI	019 025 041 042 074
INSTANT REPLAY	021
JC PENNEY	002 007 018 019 021 026 037 041 054 056
JCL	007 008 018 021 026 037
KENWOOD	007 008 018 026 037
KLH	070
LIOYD	025
LOGIK	038
LXI	025
JVC	081 082 083
MAGNAVOX	021 056 059
MARANTZ	007 008 018 021 026 037 062
MARTA	006
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075

Brand	Code
MITSUBISHI	019 034 041 046
MONTGOMERY WARD	020
MTC	002 025
MULTITECH	002 005 025 038
NEC	007 008 018 026 037 062 064
OPTIMUS	020
PANASONIC	021 056 071 072
PENTAX	019 041 075
PENTEX RESEARCH+	008
PHILCO	021 056 059
PHILIPS	021 080
PIONEER	019 026 039 053
PORTLAND	015 049 055
PROSCAN	017
QUARTZ	018
QUASAR	021 056
RADIO SHACK/REALISTIC	006 018 020 021 024 025 029 034 048 056
RCA	002 017 019 021 035 041 043 057 068 076
SANSUI	026
SANYO	018 024
SCOTT	003 047 052 067
SEARS	006 018 019 024 028 029 041 048 051
SHARP	020 034 045 015
SHIMTOM	027 033 038 058
SIGNATURE	025
SONY	027 033 044
SYLVANIA	021 025 056 059
SYMPHONIC	025
TANDY	018 025
TASHIKA	006
TATUNG	037
TEAC	025 037 068
TECHNICS	021
TEKNIKA	006 021 025 031
TMK	066
TOSHIBA	003 019 029 051 052
TOTEVISION	002 006
UNITECH	002
VECTOR RESEARCH	007 026
VICTOR	026
VIDEO CONCEPTS	007 026
VIDEOSONIC	002
WARDS	002 003 006 019 020 021 024 025 034 038 041
YAMAHA	007 008 018 026 037
ZENITH	023 027 033

Continued...

CABLE BOX

Brand	Code
SAMSUNG	000 001 002 003 004 005 006 007
GI	041
HAMLIN	003 024 031
HITACHI	025 030
JERROLD	038 039
MACOM	025 030
MAGNAVOX	019 023 028
OAK	026
PANASONIC	003 022 027 037 044
PHILIPS	019 021 023 028
PIONEER	004 018 020 044
RCA	014 022 040
REGAL	003
REGENCY	015 023
SA	042 043
SCIENTIFIC ATLAN	042 043
SPRUCER	022
STARGATE 2000	036
SYLVANIA	016
TEXSCAN	016
TOCOM	032
UNIVERSAL	033 034
VIEWSTAR	019 021 023 028
WARNER AMEX	046
ZENITH	017 029 035 037 045

SAMSUNG SET-TOP BOX

Product	Code
Ground wave STB	**000** 001 002 008 **013**
CABLE STB	**000** 004 008 **013**
Satellite STB	**000** 003 008 **013**

SET-TOP BOX

Brand	Code
ALPHASTAR	023
ANAM	043
CHANNEL MASTER	018 034
CROSSDIGITAL	019
CHAPARRAL	035
DIRECT TV	015 016 017 019 022 045 060 061 062 065 066 067 068
DAEWOO	074
DISH NETWORK SYSTEM	069 070
DISHPRO	069
DRAKE	018 024 032
DX ANTENNA	027
ECHOSTAR	025 069 070 071
EXPRESSVU	069
GOI	069
GE	065
GENERAL INSTRUMENT	046 047 048 063 064
HTS	069
HOME CABLE	056
HITACHI	022
HUGHES NETWORK	015 017
IQ	020
IQ PRISM	020
JANEIL	059
JERROID	063
JVC	069 070
LG(Goldstar)	044 073
MAGNAVOX	016 021 036 038 039 040 041 042
MEMOREX	016
MOTOROLA	064
MACOM	018
MITSUBISHI	015
NEXT LEVEL	047 048 064
PHILIPS	015 016 017 021 033 036 038 039 040 041 042 067
PRIMESTAR	046 049 050 063
PANASONIC	058 059 061 062
PAYSAT	016
PROSCAN	065 066
RCA	051 052 053 065 066
RADIOSHACK	064
REALISTIC	057
STS	020 027
STAR TRAK	026
SKY	031
SKY LIFE	005 006 007
SHACK	064
STAR CHOICE	064
SONY	054 060
TOSHIBA	015 017 028 029 030 072
ULTIMATE TV	060 066
UNIDEN	016 021 037 055 056 057
ZENITH	024 031 068

Continued...

SAMSUNG DVD

Product	Code
DVD	000 001 002
DVDR	003 004
BD Record	005 006
VCR COMBO	007 008 009 010 011
VCR Record	012
DHR COMBO	013

Product	Code
Home Theater VCR COMBO	014 015 016
HDD Record COMBO	017
TWIN TRAY COMBO	018
STB DVD COMBO	019
DVD Receiver	020
AV Receiver	021

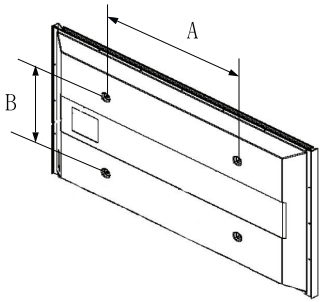
DVD

Brand	Code
ANAM	030
AUDIOVOX	075
AUDIOLOGIC	085
ANABA	072
APEX DIGITAL	070 071 074 086 083 084 088 111 112
AIWA	114
BROKSONIC	062
BLAUPUNKT	074
B&K	122 123
CURTIS MATHES	027
CYBER HOME	065 077 078 079 082
CLARION	080 125
CIRRUS	081
CINEVISION	095
DAEWOO	066
DENON	146
FARENHEIT	067 068
FISHER	090
GPX	060
GO VIDEO	061 089 133 135
GE	069 074
GREENHILL	074
HITACHI	064 113
HITEKER	071
HOYO	073
HARMAN / KARDON	091 110
IRT	089
INTEGRA	092
JBL	091
JVC	022 033 115 116
JATON	073
KENWOOD	051 108 109
KISS	073
KONKA	059 100 106 107
KLH	074 075
LG(Goldstar)	025 031
LOEWE	057
LASONIC	058
MOBILE AUTHORITY	054
MEMOREX	055
MALATA	056
MAGNAVOX	076 093
MINTEK	074 094
MONYKA	073

Brand	Code
NORCENT	048 049 050
NEXT BASE	052
NEC	053
NANTAUS	144
NESA	074
OPTOMEDIA ELECTRONICS	105
OPTIVIEW	072
ONKYO	076 092 119
PHILCO	044 045
PRINCETON	046 047
PROSCAN	023
PANASONIC	024 034 124 134 136 137 138
PHILIPS	036 076
ROTEL	117 118
RIO	120
RCA	023 035 074 075 131 132
RAITE	073
ROWA	038
SAMPO	104
SONY	026 029 126 127 128 129 130 141
SHERWOOD	039 041
SVA	042
SYLVANIA	043 093
SHARP	140
SANSUI	062
SANYO	062
SHINSONIC	094
SANYO	090
THOMSON	145
TOSHIBA	028 062 076
TECHNICS	139
TVIEW	072
TOKAI	073
TEAC	096
TECHWOOD	097
TREDEX	098 099 101
URBAN CONCEPTS	076
VENTURER	075
VOCOPRO	102
YAMAHA	032 063
YAMAKAWA	040 073
XWAVE	103
ZENITH	076 121

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.



Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	23 ~ 26	200 * 100	M4	4
	32 ~ 40	200 * 200	M6	
	46 ~ 52	600 * 400	M8	
	57	700 * 400 (No VESA)		
	57 ~ 70	800 * 400		
	80 ~	1400 * 800		
PDP-TV	42 ~ 58	600 * 400	M8	4
	70	800 * 400		
	63	No VESA		6
	80 ~	1400 * 800		4

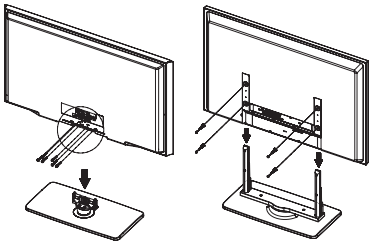
- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications. Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57” and 63” models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.

Do not install your Wall Mount Kit while your TV is turned on.
It may result in personal injury due to electric shock.

How to assemble the Stand-Base (depending on the model)

Using the screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different from the picture.)

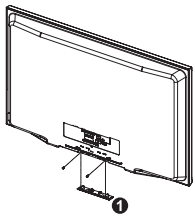
PS-50P91FH **PS-63P71FH**



Warning
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

➢ Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture

- Check that the mains lead has been connected to a wall socket.
- Check that you have pressed the ⏻ (Power) button (On/Off) on the front panel or press the **POWER** button on the remote control.
- Check the picture contrast and brightness settings.
- Check the volume.
- Check if **Internal Mute** is set to **On**.

Normal picture but no sound

- Check the volume.
- Check whether the volume **MUTE** button on the remote control has been pressed.

No picture or black and white picture

- Adjust the colour settings.
- Check that the broadcast system selected is correct.

Sound and picture interference

- Try to identify the electrical appliance that is affecting the television, then move it further away.
- Plug the television into a different main socket.

Blurred or snowy picture, distorted sound

- Check the direction, location and connections of your aerial.
  This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions

- Replace the remote control batteries.
- Clean the upper edge of the remote control (transmission window).
- Check that the "+" and "–" ends of the batteries are inserted correctly.
- Check that the batteries are drained.

Screen is black and power indicator light blinks steadily

- On your computer check; Power, Signal Cable.
- The TV is using its power management system.
- Move the computer's mouse or press any key on the keyboard.
- On your equipment check (STB, DVD, etc) ; Power, Signal Cable.
- The TV is using its power management system.
- Press the Source button on the panel or remote control.
- Turn the TV off and on.

The damaged picture appears in the corner of the screen.

- If **Just Scan** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.

Specifications

Model Name	PS-50P91FH	PS-63P71FH
Screen Size (Diagonal)	50 inch	63 inch
PC Resolution	1920 x 1080 @ 60 Hz	
Sound (Output)	15 W + 15 W	
Dimension (WxHxD) Body With stand	 1289 X 739 X 95 mm 1289 X 804 X 320 mm	 1528 X 1001 X 88 mm 1528 X 1087 X 423 mm
Weight Body With stand	 45 kg 49 kg	 68 kg 89 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 10 °C to 40 °C (50 °F to 104 °F) 10% to 80%, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5% to 95%, non-condensing	

➢
- This device is a Class B digital apparatus.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.

Contact SAMSUNG WORLD-WIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
AUSTRALIA	1300 362 603	www.samsung.com/au
CHINA	800-810-5858, 010- 6475 1880	www.samsung.com.cn
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